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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,033	05/02/2006	Tadayoshi Kamiya	ADACHI P275US	5329
	7590 07/01/200 LD & Daniels, P.L.L.C.	EXAMINER		
112 PLEASAN	T STREET	FRISTOE JR, JOHN K		
CONCORD, N	H 05501		ART UNIT	PAPER NUMBER
			3753	
			MAIL DATE	DELIVERY MODE
			07/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applica	tion No.	Applicant(s)				
Office Action Summary		10/578,		KAMIYA ET AL.				
		Examin	er	Art Unit	1			
			FRISTOE JR	3753				
	The MAILING DATE of this communic				 ddress			
Period fo								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Posponsivo to communication(s) filed	on 02 May 2006						
2a)□	Responsive to communication(s) filed on <u>02 May 2006</u> . This action is FINAL . 2b) This action is non-final.							
3)□	/							
J)الــا	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	closed in accordance with the practice	e under Ex parte d	quayre, 1955 O.D.	11, 400 O.G. 210.				
Dispositi	on of Claims							
4)⊠	Claim(s) 8-22 is/are pending in the ap	plication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🛛	5) Claim(s) 11,16 and 21 is/are allowed.							
6)🛛	· · · · · · · · · · · · · · · · · · ·							
7)🖂								
8)□	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)	The specification is objected to by the	Examiner.						
10)⊠ The drawing(s) filed on <u>02 May 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
	/ =							
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>5/2/2006, 5/30/06</u> .		6) Other:					
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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 5/30/2006 is acknowledged by the examiner. However, all the references in the information disclosure statement filed 5/2/2006 have been crossed out due to the fact they are duplicate to those on the IDS filed 5/30/2006.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 12 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Pat. No. 5,452,738 (Borland et al.). Borland et al. discloses a valve device in a gas tank comprising a solenoid valve 38), a gas tank (12) a movable core (40), a fixed core (44), a coil (48), a valve element (42), a valve body (22, portion carrying element 48), a flow passage (26, 24), a mouth hole (within element 32), a valve seat (36), a storage hole (within element 22), a discharge passage (84), a lead (74), an insertion hole (surrounding element 40), a retention ring (surrounding element 48), and a resilient member (46).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 8-10 and 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 5,452,738 (Borland et al.) in view of U.S. Pat. No. 5,809,977 (Krimmer et al.). Borland et al. discloses a valve device in a gas tank comprising a solenoid valve 38), a gas tank (12) a movable core (40), a fixed core (44), a coil (48), a valve element (42), a valve body (22, portion carrying element 48), a flow passage (26, 24) along the periphery, an opening (surrounding element 26), a mouth hole (within element 32), a valve seat (36), a storage hole (within element 22), a discharge passage (84), a lead (74), an insertion hole (surrounding element 40), a retention ring (surrounding element 48), and a resilient member (46) but lacks a cap member having a filter. Krimmer et al. teach a solenoid assembly comprising a cap member (4) and a filter (40). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the valve device of Borland et al. by adding a cap and a filter as taught by Krimmer et al. in order to filter the gas as it enters the valve.

Allowable Subject Matter

- 6. Claims 11, 16, and 21 are allowed.
- 7. Claims 18-20 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- U.S. Pat. No. 5,458,151 (Wass) discloses a solenoid valve in a gas tank.
- U.S. Pat. No. 4,543,983 (Pauliukonis) discloses a solenoid valve having a filter.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John K. Fristoe Jr. whose telephone number is (571) 272-4926.

The examiner can normally be reached on Monday-Friday, 7: 00 a.m-4: 30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Huson can be reached on (571) 272-4887. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/John K. Fristoe Jr./ John K. Fristoe Jr. Primary Examiner Art Unit 3753

JKF